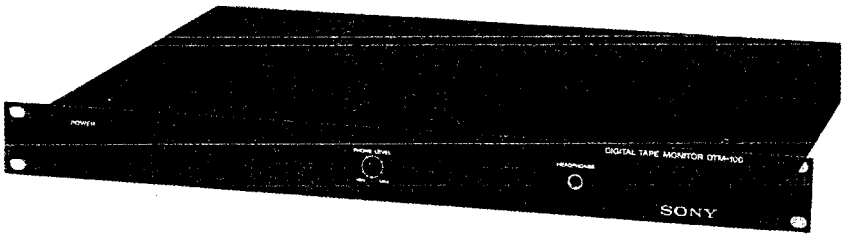
DTM-100

7136

SERVICE MANUAL



SPECIFICATIONS

Digital audio

Sampling frequencies 44.1 kHz, 48 kHz (Switches automatically.)
Frequency response 20–20,000 Hz ±1 dB
Harmonic distortion Less than 0.1% (1 kHz)
Outputs

Connector	Maximum output level	Load impedance	Output impedance	Connector type
LINE OUT	2 V (50 kilohms)	More than 10 kilohms	600 ohms	Phono jack
HEADPHONES	28 mW	—	—	Stereo phone jack

General

Dimensions 430 × 44 × 320 mm (w/h/d)
(16⅞ × 1¾ × 12⅝ inches)
Weight 4 kg (8 lb 13 oz)
Power requirements 100, 120, 220 or 240 V AC (±10%, selectable), 50/60 Hz
Power consumption Approx. 5.5 W
Operating temperature 10°C to 30°C (50°F to 86°F)
Accessories supplied AC power cords (2)
Plug adaptor for changing the power voltage (1)
Operation manual (1)

概 略 仕 様

デジタルオーディオ

サンプリング周波数 44.1kHz、48kHz（自動切り換え）
周波数特性 20～20,000Hz±1dB
ひずみ率 0.1%以下（1kHz）
出力

出力端子	最大出力レベル	負荷インピーダンス	出力インピーダンス	コネクター
LINE OUT	2V（50kΩ）	10kΩ以上	600Ω	ピンジャック
HEADPHONES	28mW（32Ω）	———	———	ステレオ標準ジャック

一般仕様

外形寸法 430×44×320mm（幅/高さ/奥行き）
重量 4kg
電源 AC 100、120、220、240V±10%、切り換え可能、50/60Hz
消費電力 約5.5W
動作温度 10°C～30°C
付属品 AC電源コード（2）
電源変換プラグアダプター（1）
オペレーション・マニュアル（1）

MICROFILM

DIGITAL TAPE MONITOR
SONY®

713

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

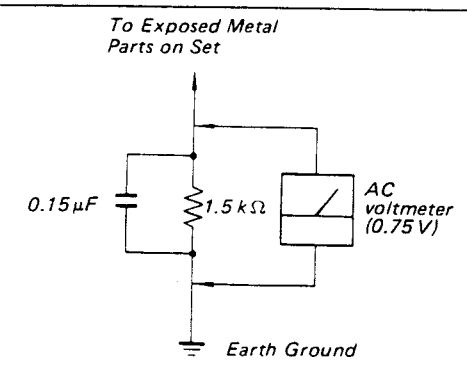


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

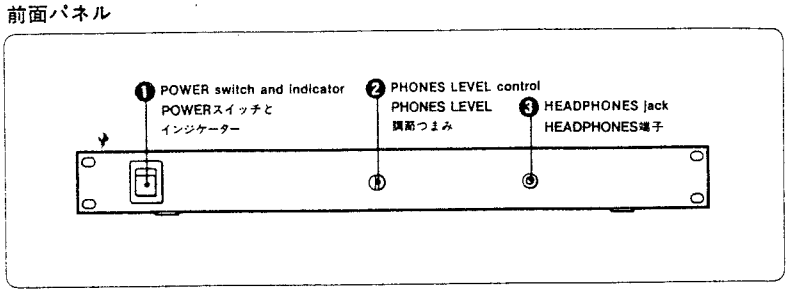
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

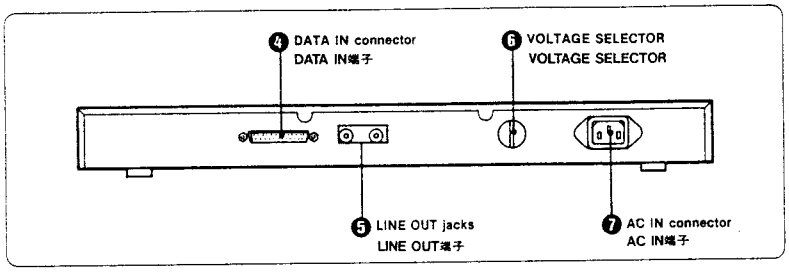
1. GENERAL
1．概　要

1-1. LOCATION AND FUNCTION OF CONTROL
1-1．各部の名称と説明

Front Panel
前面パネル



Rear Panel
裏面パネル



❶ **POWER switch and indicator**

❷ **PHONES LEVEL (headphones level) control**

❸ **HEADPHONES** jack (stereo phone jack)

❹ **DATA IN (data input) connector** (25-pin)
Inputs the digital signal output from the DATA OUT connector of the DRD-100.

❺ **LINE OUT (line output) jacks** (phono jack)
Output the digital-to-analog converted analog signal input to the DATA IN connector.

❻ **VOLTAGE SELECTOR**
Set to the position corresponding to the local power line voltage.

❼ **AC IN (AC power input) connector**
Connect to an AC outlet using the supplied AC power cord.

❶ **POWER（電源）スイッチとインジケーター**

❷ **PHONE LEVEL（ヘッドホン音量）調節つまみ**

❸ **HEADPHONES（ヘッドホン）端子**（ステレオ標準ジャック）

❹ **DATA IN（データ入力）端子**（25ピン）
DRD-100のDATA OUT端子から出力されるデジタル信号を入力します。

❺ **LINE OUT（ライン出力）端子**（ピンジャック）
DATA IN端子に入力されたデジタル信号がD/A変換され、アナログ信号が出力されます。

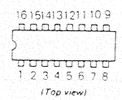
❻ **VOLTAGE SELECTOR（電源電圧切り換えスイッチ）**
電源電圧に応じて切り換えます。

❼ **AC IN（AC電源入力）端子**
付属のAC電源コードを使用して、AC電源に接続します。

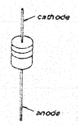
2. DIAGRAM
2．ダイヤグラム

●Semiconductor Lead Layouts
●半導体外形図

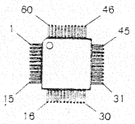
AM26LS32PC
PCMP56P-K



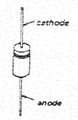
HZS6AILI



CXD1136Q

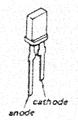


ISS132
10E2N



M5F78M05
M5F79M05

GL-9PG2



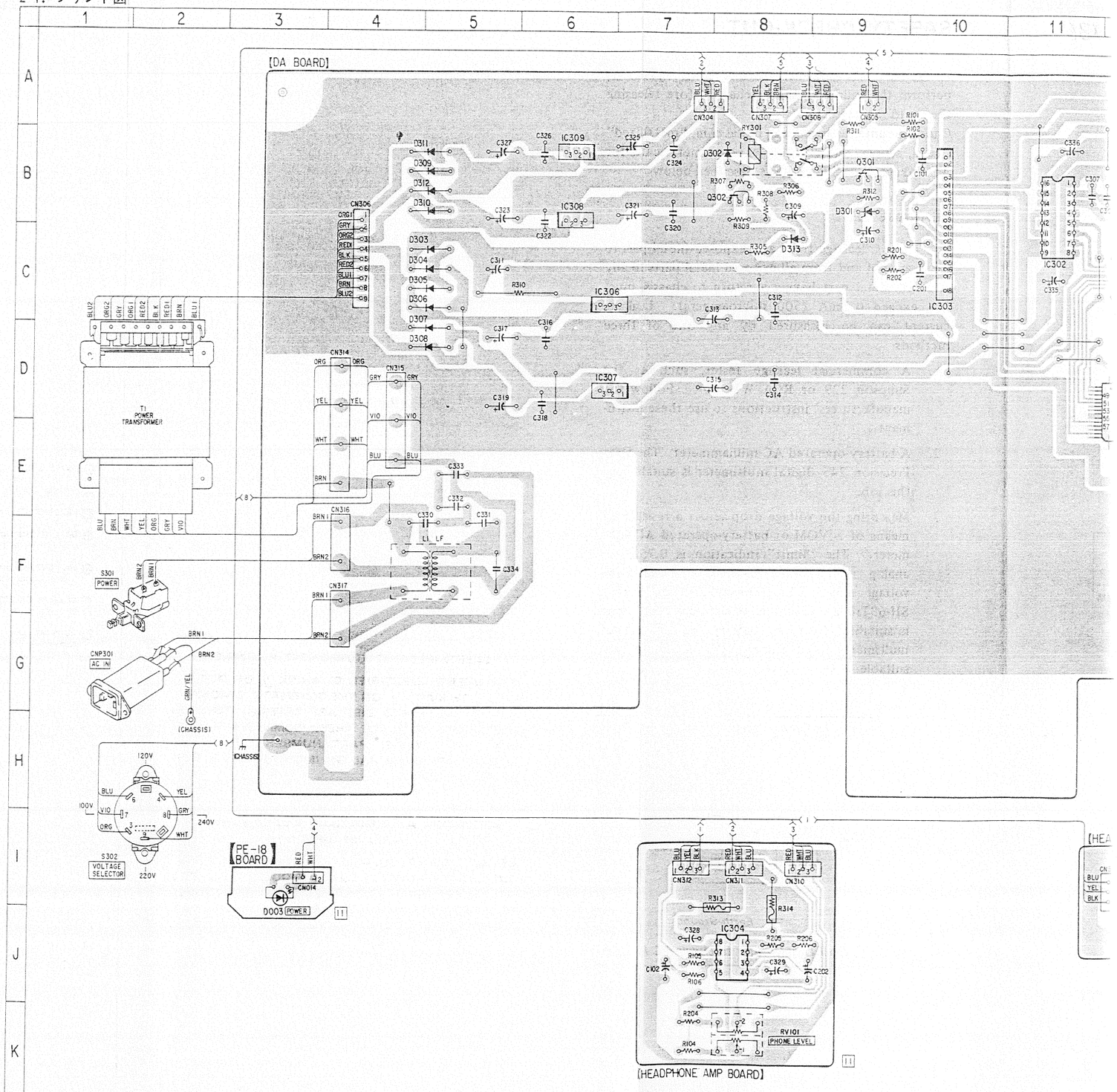
NJM4560D-D

2SC634SP-47

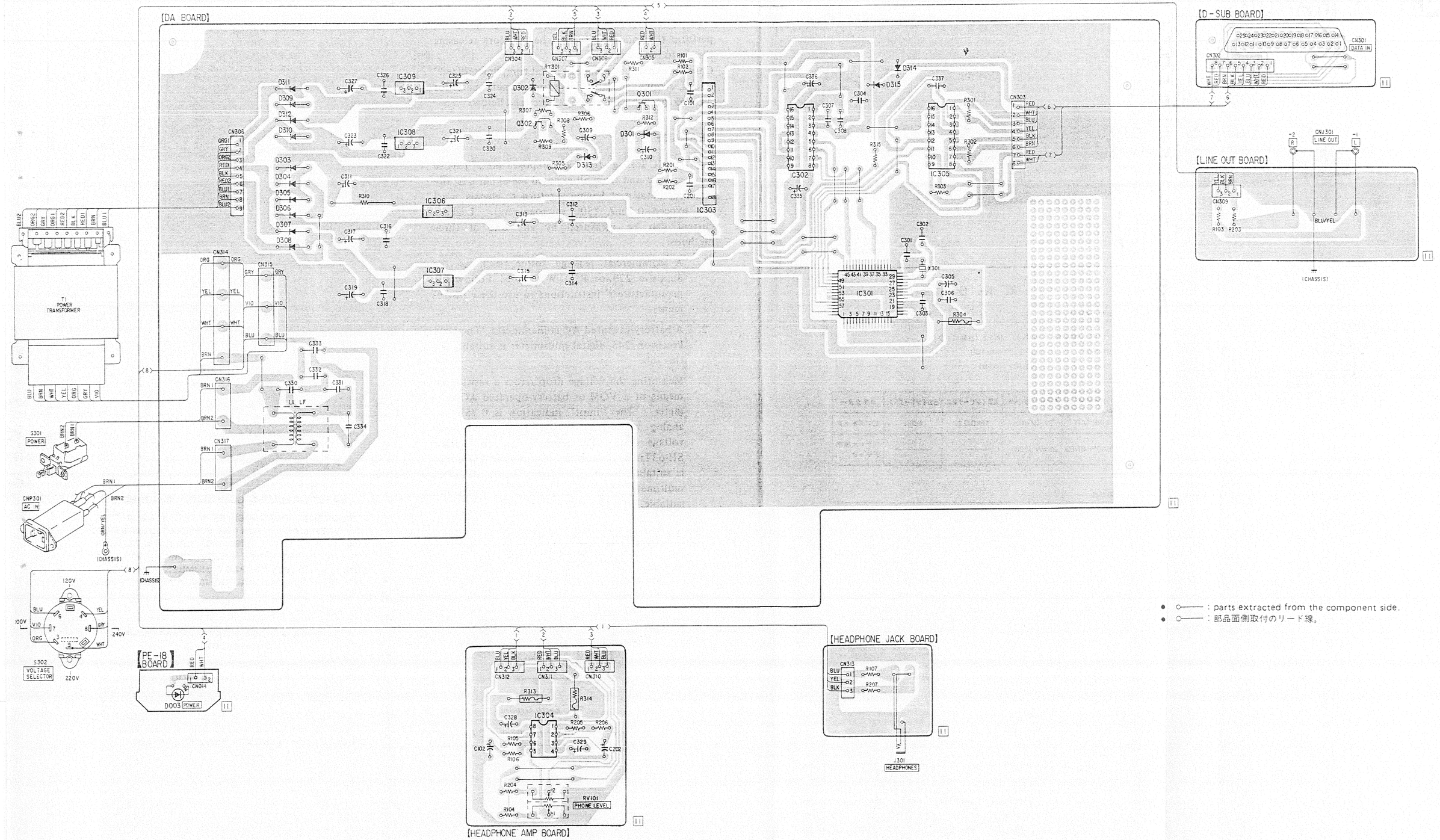
●Semiconductor Location
●半導体ロケーション

Ref. No.	Location
D003	I-3
D301	B-9
D302	B-8
D303	C-5
D304	C-5
D305	C-5
D306	C-5
D307	D-5
D308	D-5
D309	B-5
D310	B-5
D311	B-5
D312	B-5
D313	C-8
D314	B-12
D315	B-12
IC301	D-12
IC302	C-11
IC303	C-10
IC304	J-8
IC305	C-13
IC306	C-6
IC307	D-6
IC308	B-6
IC309	B-6
Q301	B-9
Q302	B-8

2-1. PRINTED WIRING BOARDS
2-1．プリント図



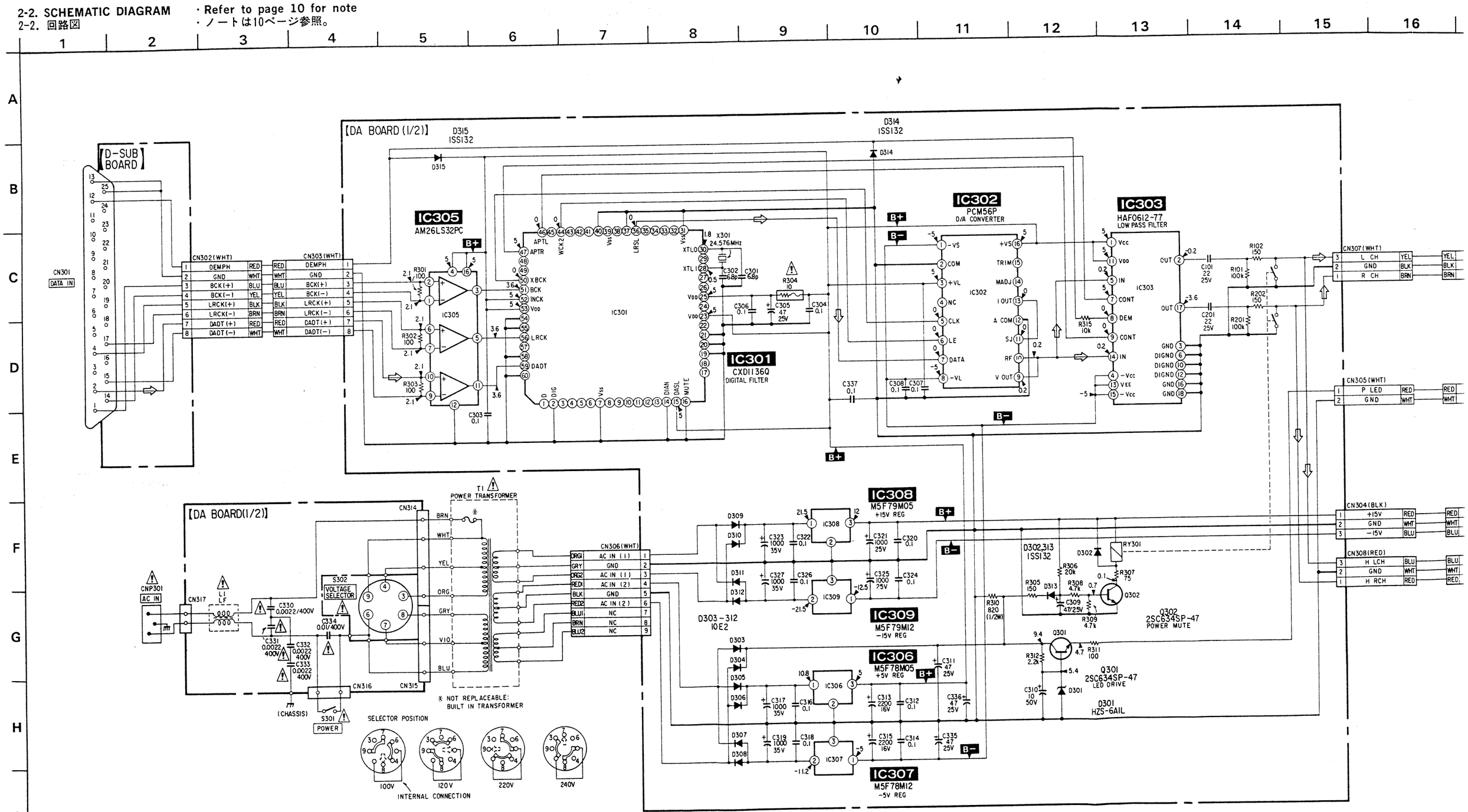
NTED WIRING BOARDS
ント図

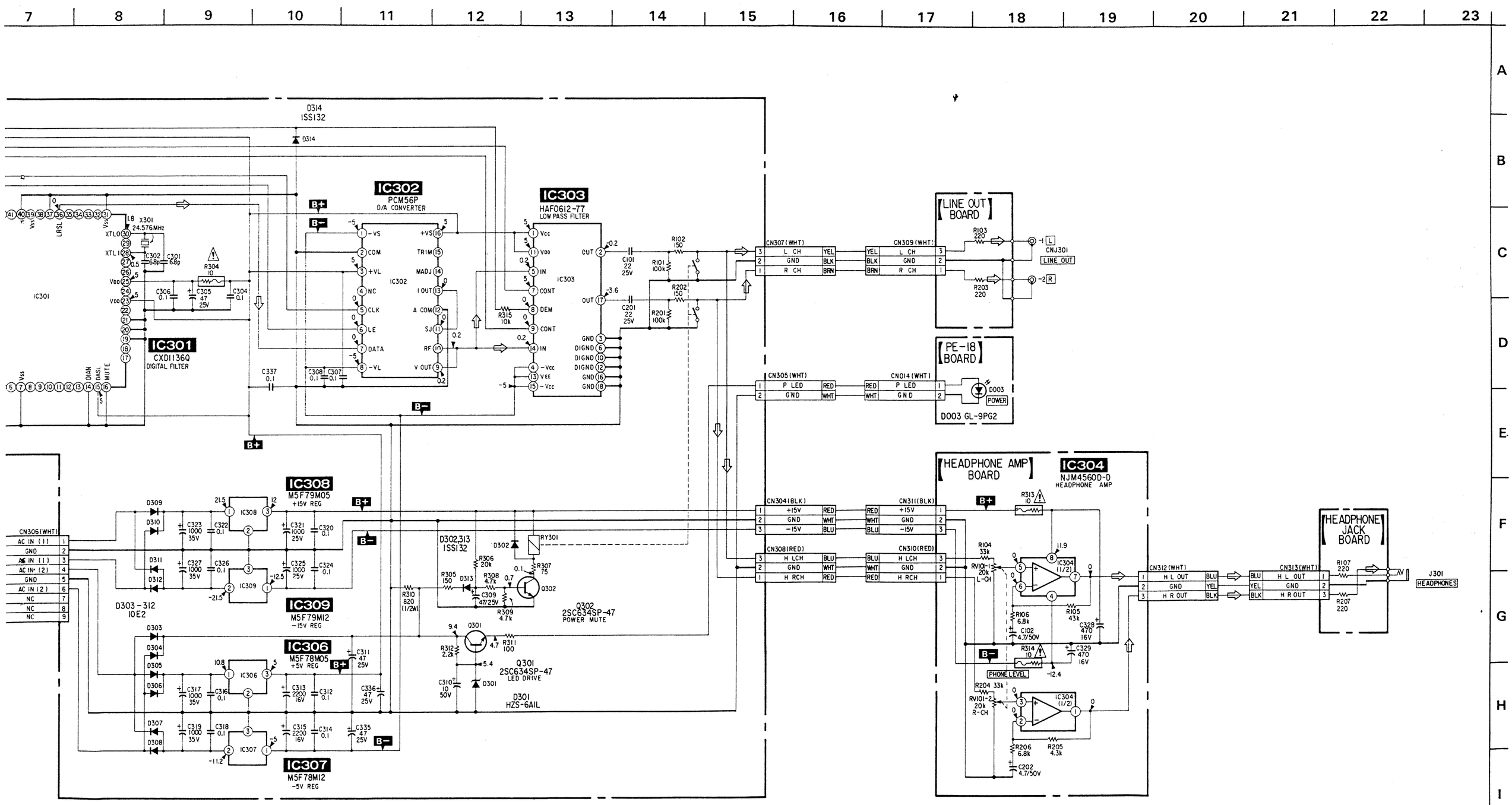


● ○—— : parts extracted from the component side.
● ○—— : 部品面側取付のリード線。

2-2. SCHEMATIC DIAGRAM
2-2. 回路図

· Refer to page 10 for note
· ノートは10ページ参照。




7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
A B C D E F G H I
D314 ISS132
IC302 PCM56P D/A CONVERTER
IC303 HAF0612-77 LOW PASS FILTER
IC301 CXD1136Q DIGITAL FILTER
X301 24.576MHz
IC308 M5F79M05 +15V REG
IC309 M5F79M12 −15V REG
IC306 M5F78M05 +5V REG
IC307 M5F78M12 −5V REG
D303-312 10E2
D302,313 ISS132
Q302 2SC634SP-47 POWER MUTE
Q301 2SC634SP-47 LED DRIVE
D301 HZS-6AIL
CN306(WHT) AC IN (1) GND AC IN (1) AC IN (2) GND NC NC NC
CN307(WHT) L CH GND R CH
CN309(WHT) L CH GND R CH
LINE OUT BOARD
CNJ301 LINE OUT
CN305(WHT) P LED GND
CN014(WHT) P LED GND
PE-18 BOARD
D003 GL-9PG2 POWER
CN304(BLK) +15V GND −15V
CN311(BLK) +15V GND −15V
CN308(RED) H LCH GND H RCH
CN310(RED) H LCH GND H RCH
HEADPHONE AMP BOARD
IC304 NJM4560D-D HEADPHONE AMP
PHONE LEVEL
CN312(WHT) H L OUT GND H R OUT
CN313(WHT) H L OUT GND H R OUT
HEADPHONE JACK BOARD
J301 HEADPHONES

3. EXPLODED VIEWS
3．分解図

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ⏦: fusible resistor.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : AUDIO

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.

●回路図ノート

・ケミコン，タンタルを除くコンデンサーで，耐圧50V以下のものは，その耐圧を省略。単位はすべてμF(pはpF)。
・抵抗で指示のないものは¼W以下を示す。単位はすべてΩ。
・⏦：ヒューズ抵抗。
・電圧および波形は，対アース間を無信号状態で測定。
・電圧値は，テスター（DC50kΩ/V）で測定した参考値。
・信号の流れについて
⇨ ：音声

⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

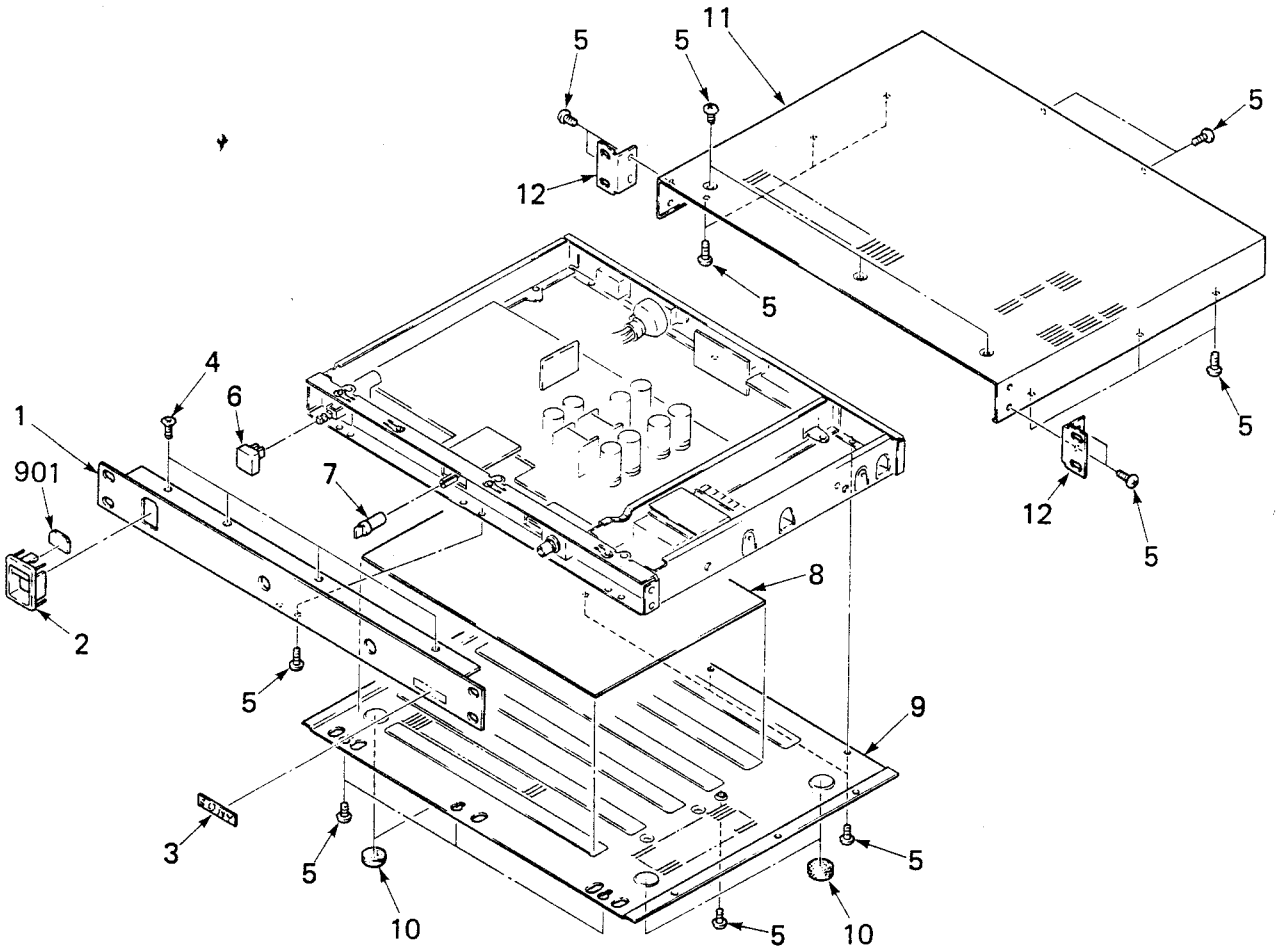
【使用上の注意】

⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

●外装部品色表示
例：(レッド)……ツマミ，バランス(ホワイト)
↑ ↑
セットの色を表わす 部品の色を表わす

●組立部品の構成部品は備考欄に図面番号で示します。
●★印の部品は常備在庫しておりません。
●分解図中の機構部品で，図面番号のない部品は供給しません。
●-XX，-Xは標準化部品のため，セットに付いている部品と異なる場合があります。
●価格欄のZ．○○○は実数価格を○○○で示します。

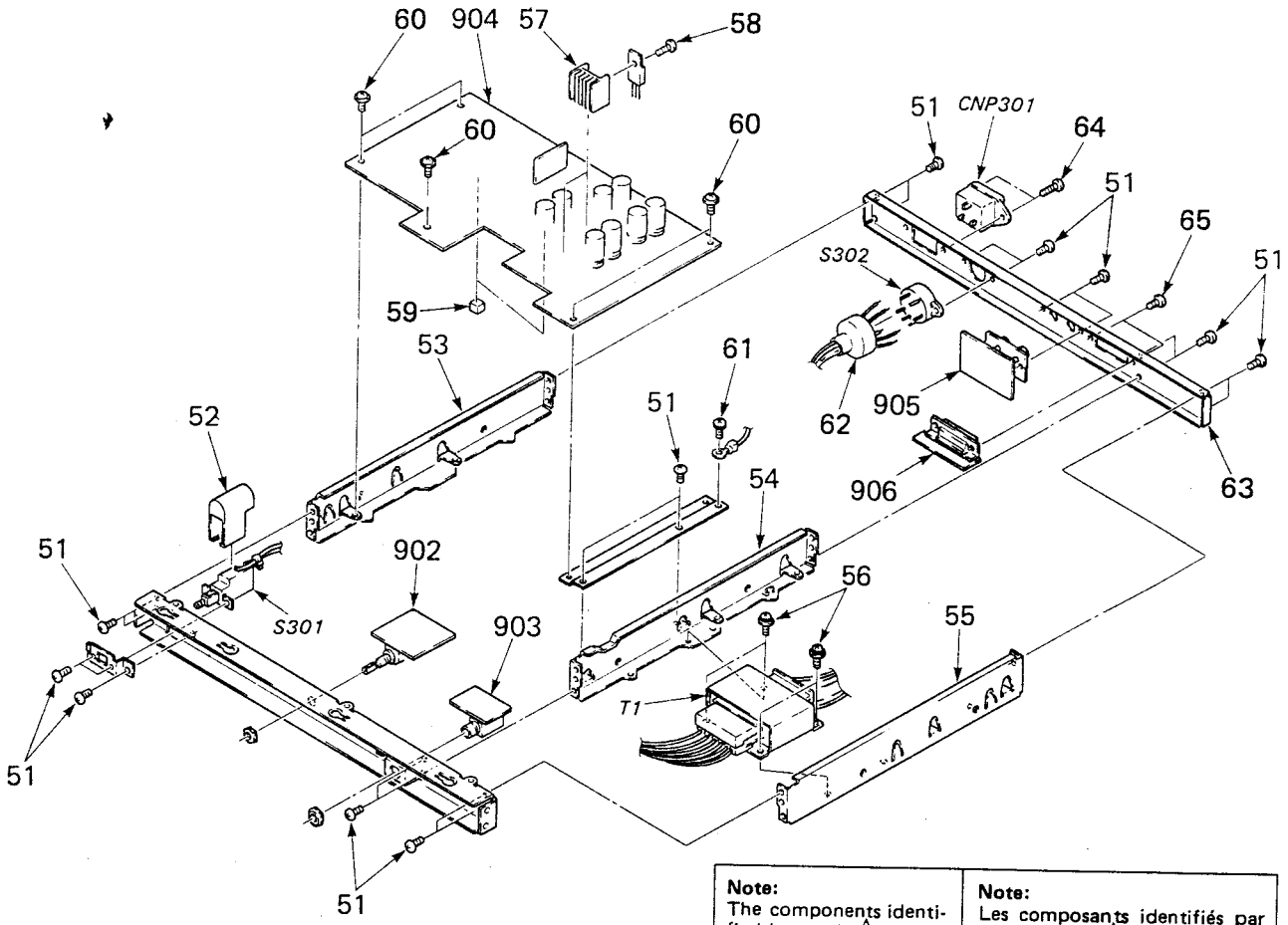
3-1. CABINET SECTION
3-1. キャビネット部



Ref.No	Part No.	Description	Remarks
1	4-925-772-01	PANEL, FRONT	
2	3-715-611-01	GURDE, PS	
3	4-908-848-01	EMBLEM, SONY	
4	7-682-246-09	SCREW +K 3X5	
5	7-682-547-09	SCREW +BV 3X6, S TIGHT	
6	3-715-610-01	KNOB, PS	
7	4-918-936-01	KNOB, HEADPHONE	

Ref.No	Part No.	Description	Remarks
8	*4-916-327-01	SHEET, INSULATING	
9	*4-916-320-01	PLATE, BOTTOM	
10	*4-907-980-01	FOOT	
11	4-916-342-11	CASE	
12	*4-916-305-01	REINFORCEMENT	
901	A-2012-150-A	MOUNTED PCB, POWER LED	

3-2. CHASSIS SECTION
3-2. シャーシ部



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remarks
51	7-682-547-09	SCREW +BV 3X6, S TIGHT	
53	*4-916-311-01	CHASSIS (LEFT), SIDE	
54	3-575-524-00	COVER, POWER SWITCH	
54	*4-916-313-01	CHASSIS, CENTER	
55	*4-916-312-01	CHASSIS (RIGHT), SIDE	
56	7-682-647-09	SCREW +PSW 3X6	
57	*4-363-146-41	HEAT SINK, V.OUT	
58	7-621-775-20	SCREW +B 2.6X5	
59	9-911-841-XX	CUSHION	
60	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
61	7-682-660-09	SCREW (M4X6), P, SW (+)	
62	2-254-842-02	COVER, SWITCH INSULATING	

Ref.No	Part No.	Description	Remarks
63	4-925-773-01	CHASSIS (REAR)	
64	7-682-247-09	SCREW +K 3X6	
65	7-621-775-10	SCREW +B 2.6X4	
902	A-2027-085-A	MOUNTED PCB, VOLUME	
903	A-2010-291-A	MOUNTED PCB, HEADPHONE	
904	A-2008-048-A	MOUNTED PCB, MAIN	
905	A-2010-290-A	MOUNTED PCB, LINE OUT	
906	A-2025-163-A	MOUNTED PCB, DATA IN	
CNP301	⚠1-560-222-21	INLET 3P (AC IN)	
S301	⚠1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)	
S302	⚠1-526-576-51	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR)	
T1	⚠1-448-592-11	TRANSFORMER, POWER	

4. ELECTRICAL PARTS LIST
4．電気部品表

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

【使用上の注意】

⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

- ●記載されていない抵抗，コンデンサについては，「補修用標準コンデンサ，抵抗価格表」を参照して下さい。
- ●同じ回路が複数あるような場合（例えばステレオ機など）の抵抗・コンデンサについては，代表のみを表示し，他は省略する場合があります。
- ●コンデンサの単位でMFはμFを，PFはμμFを示します。
- ●抵抗の単位Ωは省略してあります。
  キ ン ピ：金属被膜抵抗。
  サンキン：酸化金属被膜抵抗。
  備考欄のFは不燃性抵抗を示します。
- ●インダクタの単位で，MMHはmHを，UHはμHを示します。
- ●★印の部品は常備在庫しておりません。
- ●-XX, -Xは標準化部品のため，セットに付いている部品と異なる場合があります。
- ●半導体の名称でUA…，UPA…，UPB…，UPC…，UPD…等はそれぞれμA…，μPA…，μPB…，μPC…，μPD…を示します。
- ●ここに記載されている部品は，補修用部品であるため，回路図及びセットについている部品と異なる場合があります。
- ●価格欄のZ．○○○は実数価格を○○○で示します。

Ref.No	Part No.	Description			
901	A-2012-150-A	MOUNTED PCB, POWER LED			
902	A-2027-085-A	MOUNTED PCB, VOLUME			
903	A-2010-291-A	MOUNTED PCB, HEADPHONE			
904	A-2008-048-A	MOUNTED PCB, MAIN			
905	A-2010-290-A	MOUNTED PCB, LINE OUT			
906	A-2025-163-A	MOUNTED PCB, DATA IN			
		CAPACITOR			
C101	1-124-282-00	ELECT	22MF	20%	25V
C102	1-123-369-00	ELECT	4.7MF	20%	50V
C201	1-124-282-00	ELECT	22MF	20%	25V
C202	1-123-369-00	ELECT	4.7MF	20%	50V
C301	1-162-197-31	CERAMIC	6.8PF	10%	50V
C302	1-162-197-31	CERAMIC	6.8PF	10%	50V
C303	1-162-851-11	CERAMIC	0.1MF	20%	16V
C304	1-162-851-11	CERAMIC	0.1MF	20%	16V
C305	1-123-332-00	ELECT	47MF	20%	25V
C306	1-162-851-11	CERAMIC	0.1MF	20%	16V
C307	1-162-851-11	CERAMIC	0.1MF	20%	16V
C308	1-162-851-11	CERAMIC	0.1MF	20%	16V
C309	1-123-332-00	ELECT	47MF	20%	25V
C310	1-126-059-11	ELECT	10MF	20%	50V
C311	1-123-332-00	ELECT	47MF	20%	25V
C312	1-162-851-11	CERAMIC	0.1MF	20%	16V
C313	1-126-234-11	ELECT	2200MF	20%	16V
C314	1-162-851-11	CERAMIC	0.1MF	20%	16V
C315	1-126-234-11	ELECT	2200MF	20%	16V
C316	1-162-851-11	CERAMIC	0.1MF	20%	16V
C317	1-126-105-11	ELECT	1000MF	20%	35V
C318	1-162-851-11	CERAMIC	0.1MF	20%	16V
C319	1-126-105-11	ELECT	1000MF	20%	35V
C320	1-162-851-11	CERAMIC	0.1MF	20%	16V
C321	1-124-557-11	ELECT	1000MF	20%	25V
C322	1-162-851-11	CERAMIC	0.1MF	20%	16V
C323	1-126-105-11	ELECT	1000MF	20%	35V
C324	1-162-851-11	CERAMIC	0.1MF	20%	16V
C325	1-124-557-11	ELECT	1000MF	20%	25V
C326	1-162-851-11	CERAMIC	0.1MF	20%	16V
C327	1-126-105-11	ELECT	1000MF	20%	35V
C328	1-126-103-11	ELECT	470MF	20%	16V
C329	1-126-103-11	ELECT	470MF	20%	16V
C330	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C331	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C332	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C333	⚠1-161-742-00	CERAMIC	0.0022MF	20%	400V
C334	⚠1-161-744-00	CERAMIC	0.01MF		400V
C335	1-123-332-00	ELECT	47MF	20%	25V
C336	1-123-332-00	ELECT	47MF	20%	25V
C337	1-162-851-11	CERAMIC	0.1MF	20%	16V
CN014	★1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CN301	1-565-316-11	SOCKET, CONNECTOR 25P (DATA IN)			

Ref.No	Part No.	Description
CN302	*1-564-511-11	PLUG, CONNECTOR 8P
CN303	*1-564-511-11	PLUG, CONNECTOR 8P
CN304	*1-564-506-11	PLUG, CONNECTOR 3P
CN305	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN306	*1-560-339-00	PIN, CONNECTOR 9P
CN307	*1-564-506-11	PLUG, CONNECTOR 3P
CN308	*1-564-506-11	PLUG, CONNECTOR 3P
CN309	*1-564-506-11	PLUG, CONNECTOR 3P
CN310	*1-564-506-11	PLUG, CONNECTOR 3P
CN311	*1-564-506-11	PLUG, CONNECTOR 3P
CN312	*1-564-506-11	PLUG, CONNECTOR 3P
CN313	*1-564-506-11	PLUG, CONNECTOR 3P
CN314	*1-535-141-00	BASE POST 22MM (10MM PITCH) 4P
CN315	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P
CN316	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
CN317	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
CNJ301	1-507-898-11	JACK, PIN 2P (LINE OUT)
CNP301	⚠1-560-222-21	INLET 3P (AC IN)
D003	8-719-955-32	DIODE GL-9PG2
D301	8-719-933-33	DIODE HZS6A1L1
D302	8-719-940-76	DIODE 1SS132
D303	8-719-200-77	DIODE 10E2N
D304	8-719-200-77	DIODE 10E2N
D305	8-719-200-77	DIODE 10E2N
D306	8-719-200-77	DIODE 10E2N
D307	8-719-200-77	DIODE 10E2N
D308	8-719-200-77	DIODE 10E2N
D309	8-719-200-77	DIODE 10E2N
D310	8-719-200-77	DIODE 10E2N
D311	8-719-200-77	DIODE 10E2N
D312	8-719-200-77	DIODE 10E2N
D313	8-719-940-76	DIODE 1SS132
D314	8-719-940-76	DIODE 1SS132
D315	8-719-940-76	DIODE 1SS132
IC301	8-759-947-57	IC CXD1136Q
IC302	8-759-942-43	IC PCMP56P-K
IC303	1-464-902-11	HAF0612-77 CIRCUIT UNIT, AUDIO
IC304	8-759-745-61	IC NJM4560D-D
IC305	8-759-926-32	IC AM26LS32PC
IC306	8-759-604-35	IC M5F78M05
IC307	8-759-604-41	IC M5F79M05
IC308	8-759-604-35	IC M5F78M05
IC309	8-759-604-41	IC M5F79M05
J301	1-507-796-21	JACK (HEADPHONES)
L1	⚠1-421-915-11	COIL, LINE FILTER
Q301	8-729-600-64	TRANSISTOR 2SC634SP-47
Q302	8-729-600-64	TRANSISTOR 2SC634SP-47

Ref.No	Part No.	Description				
		RESISTOR				
R101	1-249-441-11	CARBON	100K	5%	1/4W	
R102	1-249-407-11	CARBON	150	5%	1/4W	
R103	1-249-409-11	CARBON	220	5%	1/4W	
R104	1-249-435-11	CARBON	33K	5%	1/4W	
R105	1-247-870-11	CARBON	43K	5%	1/4W	
R106	1-249-427-11	CARBON	6.8K	5%	1/4W	
R107	1-249-409-11	CARBON	220	5%	1/4W	
R201	1-249-441-11	CARBON	100K	5%	1/4W	
R202	1-249-407-11	CARBON	150	5%	1/4W	
R203	1-249-409-11	CARBON	220	5%	1/4W	
R204	1-249-435-11	CARBON	33K	5%	1/4W	
R205	1-247-870-11	CARBON	43K	5%	1/4W	
R206	1-249-427-11	CARBON	6.8K	5%	1/4W	
R207	1-249-409-11	CARBON	220	5%	1/4W	
R301	1-249-405-11	CARBON	100	5%	1/4W	
R302	1-249-405-11	CARBON	100	5%	1/4W	
R303	1-249-405-11	CARBON	100	5%	1/4W	
R304	⚠1-212-857-00	FUSIBLE	10	5%	1/4W	F
R305	1-249-407-11	CARBON	150	5%	1/4W	
R306	1-247-862-11	CARBON	20K	5%	1/4W	
R307	1-247-804-11	CARBON	75	5%	1/4W	
R308	1-249-425-11	CARBON	4.7K	5%	1/4W	
R309	1-249-425-11	CARBON	4.7K	5%	1/4W	
R310	1-249-671-11	CARBON	820	5%	1/2W	
R311	1-249-405-11	CARBON	100	5%	1/4W	
R312	1-249-421-11	CARBON	2.2K	5%	1/4W	
R313	⚠1-212-857-00	FUSIBLE	10	5%	1/4W	F
R314	⚠1-212-857-00	FUSIBLE	10	5%	1/4W	F
R315	1-249-429-11	CARBON	10K	5%	1/4W	
RV101	1-237-590-11	RES, VAR, CARBON 20K/20K (PHONE LEVEL)				
RY301	1-515-448-00	RELAY				
S301	⚠1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY)				
S302	⚠1-526-576-51	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR)				
T1	⚠1-448-592-11	TRANSFORMER, POWER				
X301	1-567-814-11	VIBRATOR, CRYSTAL (24.576MHz)				

ACCESSORY & PACKING MATERIAL

	⚠1-506-411-00	ADAPTOR, AC PLUG 3P-2P
	⚠1-551-812-00	CORD, POWER
	⚠1-556-760-11	CORD, POWER (3 CORE)
	1-559-972-11	CORD, CONNECTION
	*3-704-346-01	SHEET (STANDARD), PROTECTION
	4-916-328-01	CUSHION (RIGHT)
	4-925-777-01	MANUAL, OPERATION

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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Audio Group

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